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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR ATTORNEY DOCKET		O. CONFIRMATION NO.	
10/567,855	09/11/2006	Eusthasios Ioannides	1019219-000029	7335	
21839 BUCHANAN	7590 03/31/200 INGERSOLL & ROO	EXAM	EXAMINER		
POST OFFICE BOX 1404			HANNON,	HANNON, THOMAS R	
ALEXANDRI	A, VA 22313-1404		ART UNIT	PAPER NUMBER	
			3656		
			NOTIFICATION DATE	DELIVERY MODE	
			03/31/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail $\,$ address(es):

ADIPFDD@bipc.com

Office Action Summary

Application No.	Applicant(s)		
10/567,855	IOANNIDES ET AL.		
Examiner	Art Unit		
Thomas R. Hannon	3656		

earned patent term adjustment. See 37 CFR 1.704(b).	
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	Thomas R. Hannon	3656				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MALLING D. Etensions of time may be available under the provision of 37 CPT at 1 after SIX (6) MONTHS from the making date of the communication. If IX Operated above, the maximum statutory provided on the provided above, the maximum statutory provided above, the maximum statutory provided above, the maximum statutory provided and the state of the stat	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u>-</u> :					
2a) This action is FINAL. 2b) This	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merit					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-18 is/are pending in the application						
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 10 February 2006 is/are	e: a) accepted or b) objecte	d to by the Exami	ner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	ected to. See 37 C	FR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	⊢(d) or (f).				
 Certified copies of the priority document 	s have been received.					
Certified copies of the priority document	Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the prior	rity documents have been receive	ed in this National	Stage			
application from the International Bureau	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	A 🗖 I-ti	(DTO 440)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary Paper No(s)/Mail Da					
3) X Information Disclosure Statement(s) (FTO/SE/08)	5) Notice of Informal F					

- Information Disclosure Statement(s) (PTO/SE/C8)
 Paper No(s)/Mail Date 2/10/06.
- 6) Other: _____ Office Action Summary

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Figures 1 and 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 16, 17.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The disclosure is objected to because of the following informalities: On page 7, line 7, it is stated "shown in Figure 10, four cavities 9 having a length B_p have been applied". However, Figure 10 does not show four cavities, but only three.

Appropriate correction is required.

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phrascology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

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The abstract of the disclosure is objected to because of the inclusion of legal phraseology "said". Correction is required. See MPEP § 608.01(b).

Applicant is advised that should claim 3 be found allowable, claim 17 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention

Claim 13 depends from claim 11. Claim 11 includes the limitation of "said inlet and outlet being at a distance from any of the cavities". This requires plural cavities. Claim 13 sets forth "one and only one cavity" which contradicts the plural cavities of claim 11. A dependent claim must further define limitations of a previous claim, but must include all the limitations of the previous claim. Additionally, in line 2, "being positions" should be changed to --being positioned--.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 15, and 16 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Elsaesser et al. DE 19953576.

Claims 1, 4, 7-9, 11, 12, 14-16, and 18 are rejected under 35 U.S.C. 102(a) as being anticipated by Yasuda et al. US 6,802,650.

Yasuda discloses a sliding bearing comprising two opposite bearing surfaces (col. 3, line 40), which enclose a gap containing a lubricant film (col. 3, line 42), said bearing surfaces being moveable with respect to each other in a generally parallel fashion, at least one of said surfaces being provided with at least one cavity (2), said cavity having a depth which is at least equal to the lubricant film thickness, wherein at least one of the length and width dimension of the surface area of said cavity amounting to at least 100 µm (col. 3, line 5). With respect to claim 4, note column 3, lines 57-59. With respect to claims 7 and 8, note column 5, lines 2-6. With respect to claims 9 and 15, see Figure 1A. With respect to claims 11, 12, 14, 18, the inlet and outlet with respect to each dimple is inherent in the structure of the surface. With respect to claim 16, note column 3, line 57.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-4 and 7-18 are rejected under 35 U.S.C. 102(b) as anticipated by, or in the alternative, under 103(a) as being obvious over Coppen US 2,631,905.

Coppen discloses a sliding bearing comprising two opposite bearing surface which enclose a gap containing a lubricant film. The bearing surfaces are moveable with respect to each other in a generally parallel fashion. One of the surfaces is provided with at least one cavity (a), the cavity having a depth and having a length and width dimension. Coppen discloses the lubricant film thickness as approximately one thousandth of an inch (column 1, lines 38-42), and discloses the depth of the cavity as ten times the running clearance. Coppen discloses the pocket extending two thirds the width of the shell or component. This corresponds, or would have been obvious to one of ordinary skill in the art as being a dimension greater than 5000 µm. With respect to claims 7-18, the embodiments of Figures 1-4 and 8 encompass all the claimed limitations

Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coppen US 2.631.905.

While Coppen discloses the Depth of the pocket which is approximately ten times the running clearance, but also discloses the recess being formed by a milling cutter of radius R/2, thus for a greater radius bearing, it would have been obvious to one of ordinary skill in the art that the recess may be of a greater dimension, including 20 to 50 times the lubricant thickness, as this is dependent on both the design of the lubricant thickness and the radius of the desired bearing.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R. Hannon whose telephone number is (571) 272-7104. The examiner can normally be reached on Monday-Thursday (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard WL Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas R. Hannon/ Primary Examiner, Art Unit 3656